Blood Bottles for Pathology tests (UHL Neonatal Units) University Hospitals of Leicester

## Trust ref: C102/2006

Preservative	Colour	Test Required		
EDTA		Frequent FBC, G6PD screen, haemoglobinopathy screen Microarray (also send Li Hep bottle if possible) Gene Analysis / DNA for storage Viral PCR / Aldosterone & renin (together within 30 mins, not on ICE). Alpha-1-antitrypsin genotyping EDTA paired with Alpha-1- antitrypsin level (serum only brown/white top) Blood Track label on bottle: Blood group / DCT / crossmatch Less Frequent PTH, send separate EDTA bottle for PTH White cell enzymes (Need 5ml volume and to arrive in lab before 12:00 Monday-Thursday only) On Ice within 30 mins: ACTH □(2x bottles)		
Lithium Heparin	Orange	Frequent         U&E / LFTs / CRP/ Bone profile / Ca / Mg         Amino acid profile, Acylcarnitine profile*,         Galactosaemia screen (Gal-1-PUT)         Chromosome FISH testing (e.g. urgent trisomy test)         Less frequent         Biotinidase (separate bottle), VLCFA,         7-dehydrocholesterol (protect from light)         On Ice within 30 mins: Ammonia □         *Acylcarnitine: no longer use Guthrie card, Lithium heparin sample sent to Sheffield Lab		
Citrate	Green	Coagulation studies, AntiXa Level (Heparin Assay)		
Fluoride	Yellow	Glucose, Free fatty acids, ß-hydroxybutyrate On Ice within 30 mins: Lactate		

Page 1 of 3

Plain (serum gel)         Image: Descent result         Image: Descent result         Image: Descent result	Frequent         Antibiotic assay (e.g. gentamicin) Free T4         and TSH, Cortisol         Viral serology (IgM, IgG)         Alpha-1-antitrypsin level (serum only, white/brown top) and if         genotyping (pair with EDTA)         Less frequent         Insulin and C-peptide (to lab within 8 hours)         Iron studies / Transferrin /Zinc /Copper/ Folate Cholesterol         / lipid profile         Immunoglobulins / GH / IGF-1         LH / Progesterone / Prolactin / FSH / Testosterone Vitamins         (A, B12, D, E)**         Transferrin glycoforms (isoforms)         **Vitamin A and E to be delivered on same day of collection         17-hydroxyprogesterone separate white top (gel free) bottle filled         1.2 mL bottle.
---	---

## Key Words

Citrate, EDTA, Flouride, Lithium Heparin, Plain serum gel

The Trust recognises the diversity of the local community it serves. Our aim therefore is to provide a safe environment free from discrimination and treat all individuals fairly with dignity and appropriately according to their needs.

As part of its development, this policy and its impact on equality have been reviewed and no detriment was identified.

	CONTACT AND REVIEW DETAILS						
Guideline Lead (Name and Title)			Executive Lead				
Sumit Mittal - Consultant			Chief Nurse				
Original Authors: Joel Edwards, Divya Saxena, Robin Miralles							
Details of Cha	Details of Changes made during review:						
Date	Issue Number	Reviewed By	Description Of Changes (If Any)				
Jan 2022	5	Avineet Kaur – Higher Speciality Doctor	Added:EDTA - Handwrite on bottle: Blood group / DCT / crossmatchWhite cell enzymes (Need 5ml volume and to arrive in lab before 12:00 Monday-Thursday only)Specified 2 bottles needed for ACTHLithium Heparin - *Acylcarnitine: no longer use Guthrie card, Lithium heparin sample sent to 				

February 2025	6	Robin Miralles	EDTA 'frequent'section to now include; Alpha-1- antitrypsin genotyping EDTA paired with Alpha-1- antitrypsin level (serum only brown/white top) Blood Track label on bottle: (previously handwrite on bottle 'less frequent' PTH previously (to lab in 6 hours but can store at 4'C overnight), now; send separate EDTA bottle for PTH Lithium Heparin section Removed Insulin & C- peptide Plain serum gel – Alpha-1-antitrypsin, removed phenotype , replaced with (serum only, white/brown top) Insulin and C-peptide (to lab within 8 hours) Added; 17-hydroxyprogesterone separate white top (gel free) bottle filled 1.2 mL bottle to Vit A & E section
------------------	---	----------------	--